

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Reissue Application No.: :  
Filed: Herewith :  
Applicant: Eric Arthur Johnson :  
Patent No.: 5,726,079 :  
Issued: March 10, 1998 :  
For: THERMALLY ENHANCED FLIP CHIP :  
PACKAGE AND METHOD OF FORMING :

**ASSENT OF ASSIGNEE TO REISSUE**

Assistant Commissioner for Patents  
Box Reissue Application  
Washington, D.C. 20231

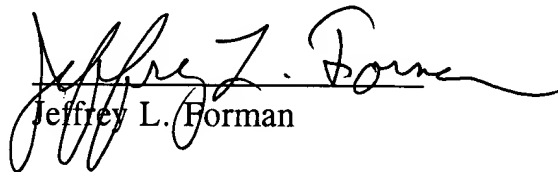
S I R :

The undersigned, assignee of the entire interest in the above-mentioned letters patent, hereby assents to the accompanying application for reissue.

International Business Machines Corporation

Dated: 16 AUGUST 1999

By:

  
Jeffrey L. Forman

Title: Manager, Information Services

08-02-1996

AD  
08/666155

100244139

Docket No. EN9-95-137

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PATENTS ONLY**

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Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): Eric A. Johnson</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: IBM Corporation Address: Old Orchard Road Armonk, NY 10504</p> <p>Additional name(s) &amp; addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment</p> <p>Execution Date(s): 6/17/96</p>	<p>4. Patent Application number(s) EN995137</p> <p>Execution Date(s): 6/17/96</p>
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Bernard Tiegerman Address: IBM Corp., Dept. N50, Bldg. 040-4 1701 North Street Endicott, NY 13760</p>	<p>6. Total number of applications involved: 1</p> <p>7. Total fee (37 CFR 3.41): \$40.00</p> <p>8. Charge to Deposit Account No.: 09-0457 (A duplicate copy of this sheet is enclosed)</p>

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of original document.

BERNARD TIEGERMAN

6/19/96

Name of Person Signing

Signature

Date

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IBM DOCKET NO. EN9-95-137

## A S S I G N M E N T

Whereas, I,

(1) Eric A. Johnson,  
County of Broome,of Greene,  
and State of New York,

have invented certain improvements in

## THERMALLY ENHANCED FLIP CHIP PACKAGE AND METHOD OF FORMING

and executed, respectively, a United States patent application therefor on  
(Date Inventor Signed Declaration) (1) June 17, 1996.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504 (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

(1) signed at Endicott on June 17, 1996.

Eric A. Johnson

## LETTER OF AUTHORITY

I, Marshall C. Phelps, Vice President, Intellectual Property and Licensing of International Business Machines Corporation (IBM), a New York corporation, do hereby delegate the authority to approve and execute documents on behalf of IBM relating to proceedings in the Patent, Trademark Registration or Copyright Offices servicing any country or region of the world, or to related appeal proceedings, including, but not limited to: petitions; powers of Attorney; authorizations; verification; nominations of representatives; declarations; documents relating to maintenance and defense of the "resulting industrial property rights; assignments of rights to apply for and acquire patents and trademark registrations, and evidence of such assignments; request for the registration of patents as available for licensing; reports of inventions and petitions for waiver of patent rights to any department or agency of the United States Government; and, assignments, licenses and other instruments confirmatory of Government rights in patents and inventions, to Jeffrey L. Forman, Manager, Information Services, Intellectual Property Law, Washington.

Date: 3/25/96

Marshall C. Phelps, Jr.  
Marshall C. Phelps, Jr.  
Vice President - Intellectual Property & Licensing  
International Business Machines Corporation

**CERTIFICATE UNDER 37 CFR 3.73(b)**

Applicant: Eric Arthur Johnson

Application No.: \_\_\_\_\_ Filed: \_\_\_\_\_  
Patent No. 5,726,079 Issued: March 10, 1998  
Entitled: Thermally Enhanced Flip Chip Package and Method of Forming

International Business Machines Corporation, a corporation of New York  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 8054, Frame 198, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
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☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

16 AUGUST 1999  
Date

Jeffrey Z. Forman  
Signature  
J. L. Forman  
Typed or printed name

EN9-95-137B

Manager, Information Services  
Title

COPY

OCTOBER 11, 1996

IBM CORP.  
BERNARD TIEGERMAN  
DEPT. N50, BLDG. 040-4  
1701 NORTH STREET  
ENDICOTT, NY 13760

PTAS



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
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Washington, D.C. 20231



\*100244139A\*

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RECORDATION DATE: 06/19/1996

REEL/FRAME: 8054/0198  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

JOHNSON, ERIC A.

DOC DATE: 06/17/1996

ASSIGNEE:

IBM CORPORATION  
OLD ORCHARD ROAD  
ARMONK, NEW YORK 10504

SERIAL NUMBER: 08666155  
PATENT NUMBER:

FILING DATE: 06/19/1996  
ISSUE DATE:

REGINA COATES, EXAMINER  
ASSIGNMENT DIVISION  
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